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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/697,712	10/30/2003	Manabu Sawasaki	1324.68598	8365	
24978	7590 05/13/2005		EXAM	INER	
GREER, BURNS & CRAIN			TON, MINI	TON, MINH TOAN T	
300 S WACK	ER DR				
25TH FLOOR			ART UNIT	PAPER NUMBER	
CHICAGO,	CHICAGO, IL 60606				
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DATE MAILED: 05/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/697,712	SAWASAKI, MANABU				
Office Action Summary	Examiner	Art Unit				
	Toan Ton	2871				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be ti ply within the statutory minimum of thirty (30) da d will apply and will expire SIX (6) MONTHS fror te, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 02/	<u>24/05</u> .	·				
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-9</u> is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-9</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
Replacement drawing sheet(s) including the corre						
Priority under 35 U.S.C. § 119		,				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document of: 2. Certified copies of the priority document of: 3. Copies of the certified copies of the priority document of the certified copies of the c	nts have been received. nts have been received in Applica iority documents have been received au (PCT Rule 17.2(a)).	tion No ved in this National Stage				
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar Paper No(s)/Mail I					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 		Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyazaki et al (US 6445437).

Miyazaki discloses a liquid crystal display device comprising (see at least Figures 19-20, 22-23): a pair of substrates provided opposite to each other; a liquid crystal sealed between the substrates; a light-shielding film 36 formed like a grid on one of the substrates; a plurality of pixel regions defined by the light-shielding film; and a pillar spacer 33 provided such that a region having an alignment defect of the liquid crystal is formed across adjoining ones of the pixel regions when viewed in a direction perpendicular to the surface of the substrate.

Miyazaki discloses wherein the pillar spacer provided such that parts of the region having an alignment defect formed respectively in the adjoining pixel regions are substantially equal to each other in surface area.

Miyazaki discloses the pillar spacer formed on the light-shielding film and provided such that it protrudes from the light-shielding film into the adjoining pixel regions when viewed in the direction perpendicular to the surface of the substrate.

Miyazaki discloses color filter layers in a plurality of colors (RBG) formed in the pixel regions and the pillar spacer provided such that it protrudes into the adjoining pixel regions in which the color filter layers are formed in different colors.

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Miyazaki discloses the device employing a thin film transistor formed in each of the pixel regions.

Miyazaki discloses an alignment film formed on the pillar spacer and rubbed in a predetermined rubbing direction, wherein the pillar spacer is provided in a position that is biased in the direction opposite to the rubbing direction from the intersection of the light-shielding film.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

4. Applicant's arguments filed 02/24/05 have been fully considered but they are not persuasive.

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Applicant's arguments are as follows:

(1) Miyazaki fails to disclose a light shielding film formed like a grid on one of the

substrates.

(2) Miyazaki fails to disclose a pillar spacer formed in the light shielding area, but not

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provided such a region having an alignment defect of the liquid crystal formed across ones of the

pixel regions, when viewed in a direction perpendicular to the surface of one of the substrates.

Examiner's responses to Applicant's arguments are as follows:

(1) Miyazaki discloses a liquid crystal display device comprising a light shielding film 36

formed a grid on one of the substrates (see at least Figures 19-20)

(2) Miyazaki discloses a pillar spacer formed in the light shielding area and provided such a

region (the claims does not recite all regions) having an alignment defect of the liquid crystal

formed across ones of the pixel regions, when viewed in a direction perpendicular to the surface

of one of the substrates.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 9, 2005

TOANTON PRIMARY EXAMINER